

Navajo Abandoned Uranium Mine

Site Screen Report

This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits, pits and waste piles. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands that may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.

The purpose of the form is to ascertain the status and location of the identified AUM site, and record all immediate site information associated with the mine site. Decisions and recommendations on what additional steps are needed will be provided on a separate document.

Grover Cleveland 1 AUM Site

Navajo AUM Northern Region

Prepared by:

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Contract: W91238-06-F-0083

12767.063.496.1111

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Part I Site Identification, Location and Status**Site Names and ID numbers as applicable****Mine ID:** 56**Map ID:** N43**CERCLIS:** NNN000908960**Navajo Abandoned Mine Land Reclamation Program:** NA-0920**Local name / Aliases:** Grover Cleveland No. 1; Grover Cleveland #1; Cleveland #1**Chapter and local area:** Sweetwater / Teec Nos Pos Chapter**County:** Apache **State:** Arizona**Lat/Long:** 36.880852591 N / -109.284157731 W**Nearby road and highway:** Highway 160 **Local Post Office:** Teec Nos Pos**Surface Land Status: check one or more and provide ownership and contact information below**

Tribal Trust Land	<input checked="" type="checkbox"/>	Public lands	<input type="checkbox"/>
Private	<input type="checkbox"/>	Tribal Fee Land	<input type="checkbox"/>
Bureau of Land Mgmt	<input type="checkbox"/>	Allotment	<input type="checkbox"/>
State	<input type="checkbox"/>	Fee land	<input type="checkbox"/>

Subsurface Mineral Rights:

No information on subsurface mineral rights ownership was found in the EPA/AUM Database.

Claim and operator information:

The mine site surface land status is classified as Tribal Trust Land. Historical documents showed the operator of the mine as U&L Mining Co. in 1957. No other historical ownership / lease information was identified in the EPA/AUM database.

Number of residential structures within 200 feet of mine: None**Estimated volume of mine waste onsite:** None

Part II Summary of radiological readings

Highest gamma radiation measurement:

45,850 counts per minute (cpm)

Describe any other radiological measurements:

A total of 1,960 gamma radiation measurements were collected from the mine site, ranging from 6,039 cpm to 45,850 cpm. Measurements collected in the vicinity of the adit were found at levels up to approximately 45,000 cpm. The measurements are represented in Figures 1 and 2.

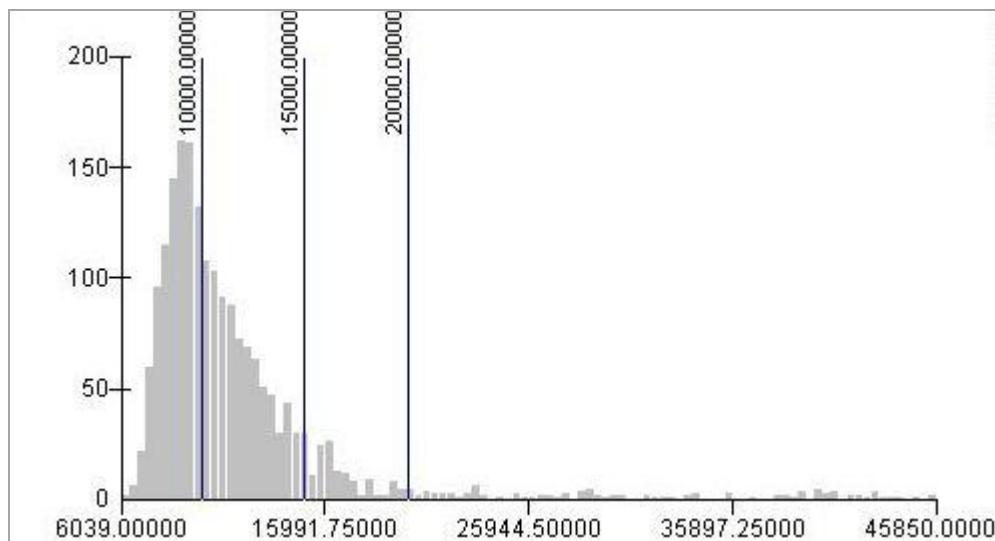
Background Locations

#1 9,014 cpm

Average background = 9,014 cpm

Distribution Chart and Statistics:

The following chart and statistics were generated by ESRI ArcGIS 9.3.1, and show the general distribution of the site gamma radiation measurements. The horizontal X axis represents the gamma radiation reading levels in cpm (lowest levels to the left). The vertical Y axis represents the frequency of each gamma radiation level.



Count:	1960
Minimum:	6039.00000
Maximum:	45850.00000
Sum:	23338364.00000
Mean:	11907.32857
Median:	10315.00000
Standard Deviation:	5682.10978

Part III Status of Reclamation and Mine Waste

The following information was obtained from the Navajo Abandoned Mine Land Reclamation Program (NAMLRP) Point Features Database:

NAMLRP Status of the mine site: Reclaimed : Yes Waste Pile onsite : No

NAMLRP Project Number: NA-0920

NAMLRP Mine features: 2 Portals, 1 Prospect

The following information was obtained from field observations collected during the 2010 site screening:

Provide description and status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all caps.

Observed reclamation work and status:

Adits

2 adits in north facing wall, cinderblock sealed

Waste Piles

None

Pits

None

Shafts

None

Other Debris and Mine Features

None

Part IV

Site observations and Environs

Observed Structures: list number of and describe human habitation status of structures at the following distances from mine:

0 to 200 feet: None

200 feet to 0.25 mile: Tony John and Charlie Begay homes approximately 750 feet NE of site

Observed Public or commercial structure: list and describe all schools, clinics, Chapter Houses, places of business and any other structure used by members of the community at the following distances:

0 to 200 feet: None

200 feet to 0.25 mile: None

Levels measured around the perimeter(s) of the identified structure(s):

Consistent with background levels

Observed water sources: list the number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine:

0 to 0.25 miles: None

0.25 miles to 4 miles: None

Sensitive environments: note and describe all sensitive environments located within visible range of the mine site, including: wetlands, endangered species, habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation.

None observed

Known Site History: include information from interviews with Chapter officials and residents. Note information on mine ownership, type of mining operation, period of operation, known amount of production, and any other information as provided.

Grover Cleveland mine consists of an area of 9,503.84 m². The mine was identified as being operational in 1957. Historical documents showed the operator of the mine as U&L Mining Co. in 1957. While operational, the mine had a total reported production volume of 28 tons. No other historical information or any additional ownership / lease information was identified in the EPA/AUM database.

Part V Response Action Summary

Site Name(s): Grover Cleveland 1 **Chapter:** Sweetwater/Teeec Nos Pos

Decision Criteria

Is there an unreclaimed waste pile at the site? No

At what distance from the waste pile is the nearest residential structure located? None

At what distances from the waste pile are there potential drinking water sources? None

Is there a reclamation cap or sealed adit in place at the site? Yes

Is the cap/seal functionally intact? Yes

Is the cap/seal sufficiently degraded to create a concern about releases? No

At what distance from the cap/seal is the nearest domestic structure located? 0.25 mi

At what distance from the cap/seal is the nearest domestic drinking water source? None

Summary of emergency response factors

None

Summary hazard ranking system factors

None

Summary of reclamation factors

2 sealed adits

Part VI Photos



Photo 1. Grover Cleveland 1 mine site



Photo 2. Grover Cleveland 1 mine site



Photo 3. Grover Cleveland 1 mine site



Photo 4. Grover Cleveland 1 mine site, 2 adits along cliff face



Photo 5. Grover Cleveland 1 mine site, cliff face



Photo 6. Grover Cleveland 1 mine site, housing compound NE of site



Photo 7. Grover Cleveland 1 mine site, housing compound NE of site



Photo 8. Grover Cleveland 1 mine site, housing compound NE of site



Photo 9. Grover Cleveland 1 mine site, housing compound NE of site



Photo 10. Grover Cleveland 1 mine site, housing compound NE of site

Part VII Contacts Reports and InformationName: Stanley Edison (928) 871-6861Eugene Esplain (928) 871-7331Title or official role (if any) Navajo EPA Superfund ProgramAddress PO Box 2946, Window Rock, AZ 86515Information provided Lead Regulatory AgencyName: Tony Natoni JohnTitle or official role (if any) Local ResidentAddress PO Box 1282 Teec Nos Pos, AZ 86514Information provided Local resident concerned about radiation, stated that the canyon "lights up" at night, he wanted copies of the report as well as any old reports, and wanted compensation etc, He also feels his neighbor(Charlie Begay - deceased)'s wife who lives n Shiprock should be screened for radiation.

Name_____

Title or official role (if any) _____

Telephone number_____

Information provided_____

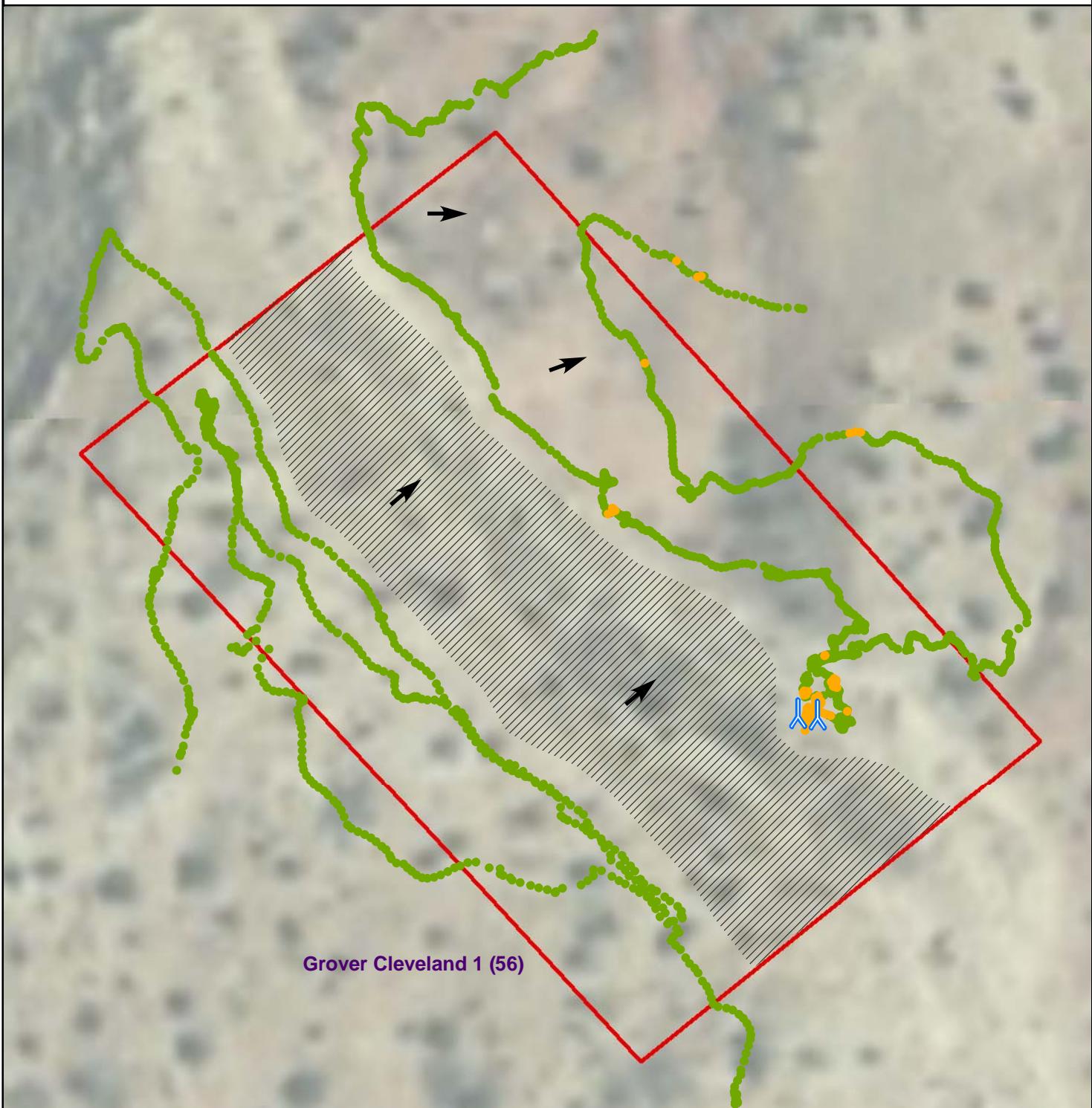
Name_____

Title or official role (if any) _____

Telephone number_____

Information provided_____

Figure 1 - Gamma Radiation Measurements, Above Two Times Background
Grover Cleveland 1 (56)
Sweetwater Chapter, Navajo Nation



Legend

Gamma Radiation Measurements

- < 2X Background
- > 2X Background

Gamma survey conducted 06/2010
Measured as counts per minute (cpm)

Average background = 9,014 cpm

Observed Adit

→ General Direction Down-Slope

■ Mine Claim Boundaries

▨ Inaccessible due to steep grades

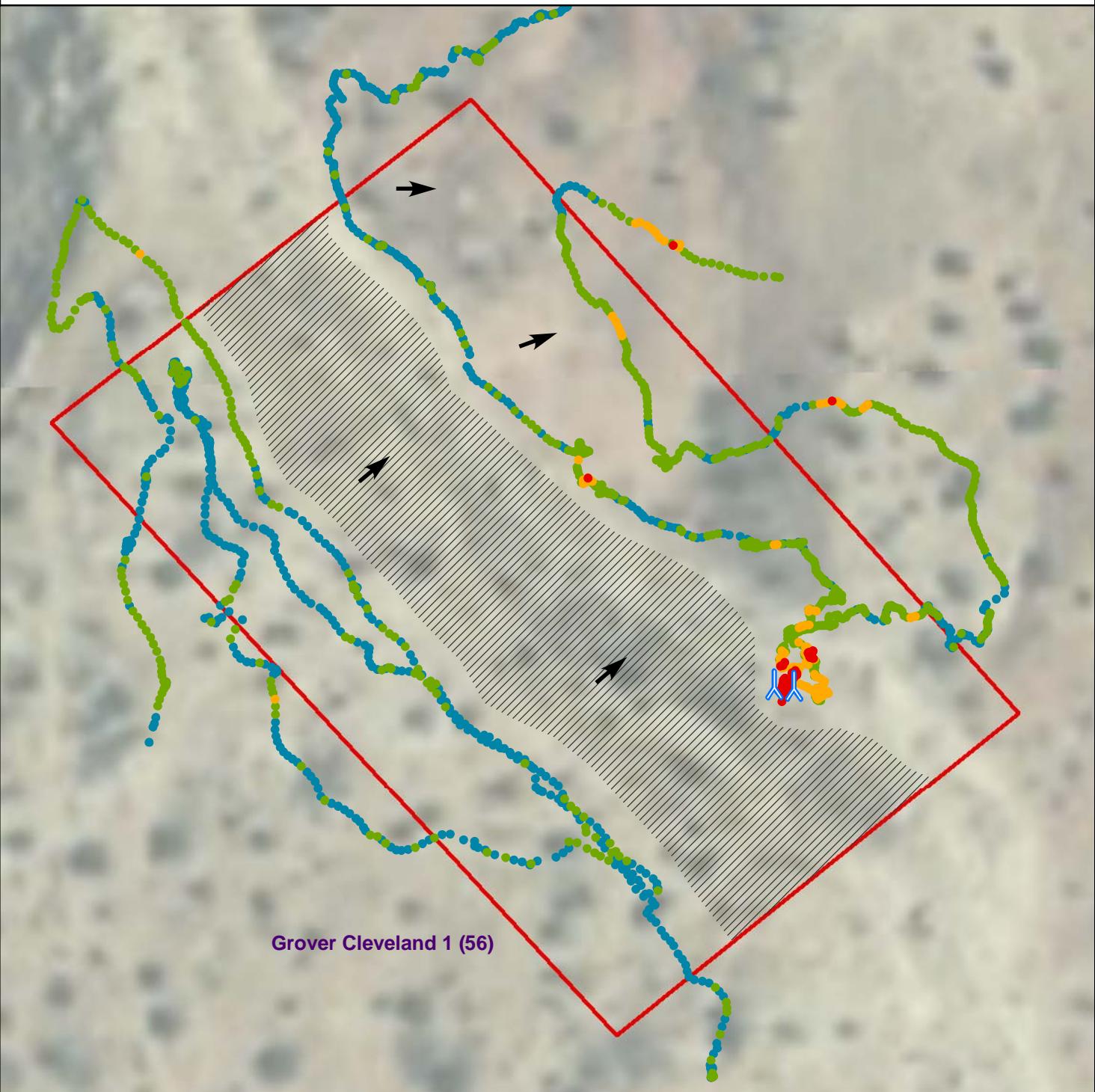


0 100 Feet



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Figure 2 - Gamma Radiation Measurements
Grover Cleveland 1 (56)
Red Valley Chapter, Navajo Nation



Legend

Gamma Radiation Measurements

- 0 - 10,000
- 10,000 - 15,000
- 15,000 - 20,000
- 20,000 - 50,000
- 50,000 - 100,000
- > 100,000

- Observed Adit
- General Direction Down-Slope
- Mine Claim Boundaries
- ▨ Inaccessible due to steep grades

Gamma survey conducted 06/2010
 Measured as counts per minute (cpm)

Average background 9,014 cpm



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